



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/787,094	03/13/2001	2652	1030	PHN 17.550	3	25	4

CONFIRMATION NO. 1104

FILING RECEIPT



Michael E Belk
Philips Electronic North America Corporation
580 White Plains Road
Tarrytown, NY 10591

Date Mailed: 05/15/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Martijn Jeroen Dekker, Eindhoven, NETHERLANDS; ✓
Hendrikus Bernardus Van Den Brink, Eindhoven, NETHERLANDS; ✓

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/EP00/06589 07/11/2000 ✓

Foreign Applications

EUROPEAN PATENT OFFICE (EPO) 99202333.3 07/15/1999 ✓

RECEIVED MAY 21 2001

Projected Publication Date: N/A

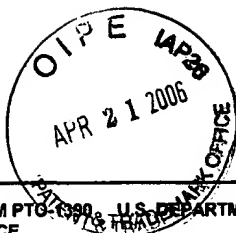
Non-Publication Request: No

Early Publication Request: No

Title

Methods and devices for recording marks in an information layer of an optical record carrier, and record carriers for use therein

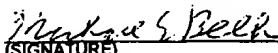
BK



Orig. given to
JENA 3:30 3/13/01 (NO)

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NO. PHN 17, 550
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. Application No. (If known, see 37 CFR 1.5)
INTERNATIONAL APPLICATION NO PCT/EP00/06589	INTERNATIONAL FILING DATE JULY 11, 2000	PRIORITY DATE CLAIMED JULY 15, 1999
TITLE OF INVENTION: METHOD AND DEVICES FOR RECORDING MARKS IN AN INFORMATION LAYER OF AN OPTICAL RECORD CARRIER, AND RECORD CARRIERS FOR USE THEREIN		
APPLICANT(S) FOR DO/EO/US: MARTIJN J. DEKKER, HENDRIKUS BERNARDUS VAN DEN BRINK		
Applicant(s) herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</p> <p>4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2))</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A translation of the amendment to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11. to 16. below concern document(s) or information included:</p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND OR SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input checked="" type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information: Application as published (WO 01/06500) 3 Sheets of Formal Drawings Auth. Pursuant to 37 CFR 1.136(a) 3 References</p>		
<div style="border: 1px solid black; padding: 5px;"><p style="text-align: center;">CERTIFICATE OF EXPRESS MAILING</p><p>Express Mail Mailing Label No. <u>EL686948626</u></p><p>Date of Deposit <u>MARCH 13, 2001</u></p><p>I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington D.C. 20231</p><p><u>Noemi Chapa</u> Typed Name Signature</p></div>		

PC MAR 14 2001

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)		INTERNATIONAL APPLICATION NO. PCT/EP00/06589		ATTORNEY'S DOCKET NUMBER PHN 17,550	
17 <input type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(A)(1)-(5)): Search Report has been prepared by the EPO or JPO \$940.00 International preliminary-examination fee paid to USPTO (37 C.F.R. 1.482) \$720.00 No international preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but international search fee paid to USPTO (37 C.F.R. 1.445(a)(2)) \$760.00 Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO \$970.00 International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) \$ 96.00 ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS (PTO USE ONLY) \$970.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	25 - 20 =	5	X \$ 18.00	\$90.00	
Independent claims	4 - 3 =	1	X \$ 78.00	\$78.00	
MULTIPLE DEPENDENT CLAIMS (if applicable)			+ \$260.00	\$	
TOTAL OF ABOVE CALCULATIONS				=	\$1138.00
Reductions by 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 C.F.R. 1.9, 1.27, 1.28)				\$	
SUBTOTAL				=	\$1138.00
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).				\$	
TOTAL NATIONAL FEE				=	\$
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property				+	\$40.00
TOTAL FEES ENCLOSED				=	\$1178.00
				Amount to be refunded	\$
				charged	\$
a. <input type="checkbox"/> A check in the amount \$_____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>14-1270</u> in the amount of \$ <u>1178.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input type="checkbox"/> The Commissioner is hereby authorized to charge any additional fee, with the exception of the Base Issue Fee, which may be required, or credit any overpayment to Deposit Account No. _____. A duplicate copy of this sheet is enclosed.					
NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO: Corporate Patent Counsel Philips Electronics North America Corporation 580 White Plains Road Tarrytown, NY 10591			 (SIGNATURE) MICHAEL E. BELK (NAME) 33,357 (REGISTRATION NUMBER)		
DATE OF MAILING: MARCH 13, 2001					



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

MARTIJN J. DEKKER ET AL

PHN 17,550

Filed: CONCURRENTLY

Title: METHOD AND DEVICES FOR RECORDING MARKS IN AN INFORMATION LAYER OF AN OPTICAL RECORD CARRIER, AND RECORD CARRIERS FOR USE THEREIN

Commissioner for Patents
Washington, D.C. 20231

APPOINTMENT OF ASSOCIATES

Sir:

The undersigned Attorney of Record hereby revokes all prior appointments (if any) of Associate Attorney(s) or Agent(s) in the above-captioned case and appoints:

MICHAEL E. BELK

(Registration No. 33,357)

c/o PHILIPS ELECTRONICS NORTH AMERICA CORPORATION, Corporate Intellectual Property, 580 White Plains Road, Tarrytown, New York 10591, his Associate Attorney(s)/Agent(s) with all the usual powers to prosecute the above-identified application and any division or continuation thereof, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

ALL CORRESPONDENCE CONCERNING THIS APPLICATION AND THE LETTERS PATENT WHEN GRANTED SHOULD BE ADDRESSED TO THE UNDERSIGNED ATTORNEY OF RECORD.

Respectfully,

Michael E. marion, Reg. 32,266
Attorney of Record

Dated at Tarrytown, New York
on March 13, 2001.



UNITED STATES PATENT AND TRADEMARK OFFICE

APR 21 2000

Commissioner for Patents, Box PCT
United States Patent and Trademark Office
Washington, D.C. 20231
www.uspto.gov

BELK

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/787094	DEKKER	M PHN 17550
INTERNATIONAL APPLICATION NO.		

CORPORATE PATENT COUNSEL
PHILIPS ELECTRONICS NORTH AMERICA CORP
580 WHITE PLAINS ROAD
TARRYTOWN, NY 10591

PCT/EP00/06589

I.A. FILING DATE	PRIORITY DATE
11 JUL 00	15 JUL 99

DATE MAILED:

08 MAY 2001

**NOTIFICATION OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C. 371
AND 37 CFR 1.494 OR 1.495**

1. The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as ☒ a Designated Office (37 CFR 1.494), ☐ an Elected Office (37 CFR 1.495), has determined that the above-identified international application has met the requirements of 35 U.S.C. 371, and is **ACCEPTED** for national patentability examination in the United States Patent and Trademark Office.

2. The United States Application Number assigned to the application is shown above and the relevant dates are:

MAR 13 2001	MAR 13 2001
DATE OF RECEIPT OF	DATE OF RECEIPT OF ALL
35 U.S.C. 371(c)(1), (c)(2) and (c)(4) REQUIREMENTS	35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** The filing date of the above-identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

3. ☒ A request for immediate examination under 35 U.S.C. 371(f) was received on MAR 13 2001 and the application will be examined in turn.

4. The following items have been received:

- ☒ U.S. Basic National Fee.
- ☒ Copy of the international application.
- ☐ Translation of the international application into English.
- ☒ Oath or Declaration of inventor(s).
- ☐ Copy of Article 19 amendments. ☐ Translation of Article 19 amendments into English.
The Article 19 amendments ☐ have ☐ not been entered.
- ☐ The International Preliminary Examination Report in English and its Annexes, if any.
- ☐ Copy of the Annexes to the International Preliminary Examination Report (IPER).
☐ Translation of Annexes to the IPER into English.
The Annexes ☐ have ☐ not been entered.
- ☒ Preliminary amendment(s) filed MAR 13 2001 and _____
- ☒ Information Disclosure Statement(s) filed MAR 13 2001 and _____
- ☒ Assignment document.
- ☒ Power of Attorney and/or Change of Address.
- ☐ Substitute specification filed _____
- ☐ Indication of Small Entity Status.
- ☒ Priority Document.
- ☒ Copy of the International Search Report ☒ and copies of the references cited therein.
- ☐ Other:

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5).

John Anderson

Telephone: 703-308-9116

FORM PCT/DO/EO/903 (March 2001)

BK



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re Application of Atty. Docket

MARTIJN J. DEKKER ET AL

PHN 17,550

Serial No. 09/787,094

Group Art Unit: 2652

Filed: MARCH 13, 2001

Title: METHODS AND DEVICES FRO RECORDING MARKS IN AN INFORMATION
LAYER OF AN OPTICAL RECORD CARRIER, AND RECORD CARRIERS FOR USE
THEREIN

Commissioner for Patents, Washington, D.C. 20231

LETTER

Sir:

Please issue a corrected Notice of Recordation of
Assignment to change first inventor's name from "MARTJN" to
--~~MARTIJN~~-- and second inventor's name from "BAN DEN BRINK" to
--~~VAN DEN BRINK~~--.

This error is apparently the result of a typographic
error that occurred at the U.S. Patent and Trademark Office
(please see the Assignment and Notice of Recordation, copies
enclosed).

Accordingly, it is believed that no fee is due for
making these corrections.

Respectfully submitted,

By Michael E. Belk
Michael E. Belk, Reg. 33,357
Attorney
(914) 333-9643

CERTIFICATE OF MAILING

It is hereby certified that this correspondence
is being deposited with the United States Postal Service
as first-class mail in an envelope addressed to:

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

On August 3, 2001
By Noemi Chgoe



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

AUGUST 20, 2001

PTAS

U.S. PHILIPS CORPORATION
MICHAEL E. BELK
580 WHITE PLAINS ROAD
TARRYTOWN NY 10591



101815425A

CORRECTED
NOTICE

N 17, 550

BELK

AUG 27 A 11:13

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/13/2001

REEL/FRAME: 011762/0424
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DEKKER, MARTIJN JEROEN

DOC DATE: 02/08/2001

ASSIGNOR:

VAN DEN BRINK, HENDRIKUS BERNARDUS

DOC DATE: 02/08/2001

ASSIGNEE:

U.S. PHILIPS CORPORATION
1251 AVENUE OF THE AMERICAS
NEW YORK, NEW YORK 10020-1104

SERIAL NUMBER: 09787094

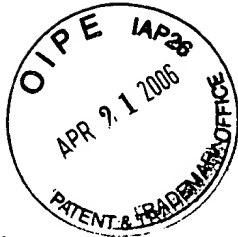
PATENT NUMBER:

FILING DATE: 03/13/2001

ISSUE DATE:

MARGARET LASALLE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

BK



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 20, 2001

PTAS

U.S. PHILIPS CORPORATION
MICHAEL E. BELK
580 WHITE PLAINS ROAD
TARRYTOWN NY 10591



*101707693A

BELK

N 17,550

JUL 26 A 10:50

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/13/2001 ✓

REEL/FRAME: 011762/0424 ✓
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
DEKKER, (MARTIN) JEROEN

DOC DATE: 02/08/2001 ✓

ASSIGNOR:
(BAN) DEN BRINK, HENDRIKUS BERNARDUS

DOC DATE: 02/08/2001 ✓

ASSIGNEE:
U.S. PHILIPS CORPORATION
1251 AVENUE OF THE AMERICAS
NEW YORK, NEW YORK 10020-1104 ✓

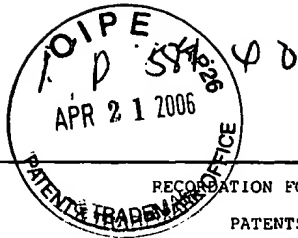
SERIAL NUMBER: 09787094 ✓
PATENT NUMBER:

FILING DATE: 03/13/2001 ✓
ISSUE DATE:

SHARON BROOKS, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

64 JUL 26 2001

4-13-01



09/787094

PHN 17,550

ICM2 Rec'd PCT/PTO 13 MAR 2001

05-09-2001

Form PTO 1595
Commerce
(Rev. 6-93)
Office

RECORDATION FORM COVER SHEET

PATENTS ONLY



101707693

To the Honorable Commissioner of Patents and Trademarks: Please rec
copy thereof.

1. Name of conveying party(ies):

MARTIJN JEROEN DEKKER
HENDRIKUS BERNARDUS VAN DEN BRINK

Additional name(s) of conveying party(ies) attached?

Yes ☐No ☒

2. Name and address of receiving party(ies):

Name: U.S. Philips Corporation

Internal Address: _____

Street Address: 1251 Avenue of the AmericasCity: New York State: NY Zip: 10020-1104

Additional name(s) & address(es) attached?

Yes ☐No ☒

3. Nature of conveyance:

☒

Assignment



Merger



Security Agreement

Change of
Terms

Other _____

Execution Date: FEBRUARY 8, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the
application, is MARCH 2, 2001

A. Patent Application No.(s)

B. Patent No.(s)

NONE YET

Additional numbers attached? No

Yes ☐No ☒

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: U.S. Philips Corporation

Internal Address: _____

Street Address: 580 White Plains RoadCity: Tarrytown State: NY Zip: 10591

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41) ...\$40.00



Enclosed

Authorized to Deposit
Account8. Deposit Account Number: 14-1270

(Attach duplicate copy of this page paying by
deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached
copy is a true copy of the original document.

Michael E. Belk

Name of Person Signing

Signature

Date

3/13/01
Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

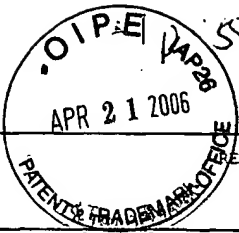
Box Assignments

Washington, D.C. 20231

PHN 17-550

Form PTO 1595 (Rev. 6-93)	RECORDATION FORM COVER SHEET PATENTS ONLY	U.S. Dept. of Commerce Patent and Trademark Office
To the Commissioner for Patents: Please record the attached original documents or copy thereof.		
1. Name of conveying party(ies): U.S. PHILIPS CORPORATION Additional name(s) of conveying party(ies) attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	2. Name and address of receiving party(ies): Name: <u>KONINKLIJKE PHILIPS ELECTRONICS N.V.</u> <u>GROENEWOUDSEWEG 1</u> <u>5621 BA, EINDHOVEN</u> <u>THE NETHERLANDS</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Terms <input type="checkbox"/> Other: _____ Execution Date: <u>DECEMBER 1, 2004</u>		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application, is A. Patent Application No.(s) <u>09/787,094</u> B. Patent No.(s) _____ Additional numbers attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>U.S. Philips Corporation</u> Address: <u>P.O. Box 3001</u> Street Address: <u>5345 Scarborough Road</u> City: <u>Briarcliff Manor</u> State: <u>NY</u> Zip: <u>10510</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) ...\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to Deposit Account 8. Deposit Account Number: <u>14-1270</u> (Attach duplicate copy of this page paying by deposit account)	
DO NOT USE THIS SPACE		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Michael E. Belk <u>Michael E. Belk</u> <u>11/30/04</u> Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and document: <u>2</u> Mail documents to be recorded with required cover sheet information to: Commissioner for Patents Box Assignments Alexandria, VA 22313		

4-13-01



581.40

09/787094

PHN 17,550

1002 Rec'd PCT/PTO 13 MAR 2001

Form PTO 1595
Commerce
(Rev. 6-93)
Office

RECORDATION FORM COVER SHEET

PATENTS ONLY

05-09-2001



101707693

To the Honorable Commissioner of Patents and Trademarks: Please rec
copy thereof.

1. Name of conveying party(ies):

MARTIJN JEROEN DEKKER
HENDRIKUS BERNARDUS VAN DEN BRINK

Additional name(s) of conveying party(ies) attached?

Yes ☐No ☒

2. Name and address of receiving party(ies):

Name: U.S. Philips CorporationInternal Address: 09787094Street Address: 1251 Avenue of the AmericasCity: New York State: NY Zip: 10020-1104

Additional name(s) & address(es) attached?

Yes ☐No ☒

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Terms☐ Other _____Execution Date: FEBRUARY 8, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the
application, is MARCH 2, 2001

A. Patent Application No.(s)

B. Patent No.(s)

NONE YET

Additional numbers attached? No

Yes ☐No ☒

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: U.S. Philips Corporation

Internal Address: _____

Street Address: 580 White Plains RoadCity: Tarrytown State: NY Zip: 10591

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41) ...\$40.00

☐ Enclosed☒

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8. Deposit Account Number: 14-1270

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Docket No. PHN 17.550

For good and valuable consideration, of which I acknowledge receipt, I, as a below-named assignor, sell and assign to U.S. Philips Corporation (hereinafter "Assignee") a corporation existing under the laws of the State of Delaware, whose business address is 1251 Avenue of the Americas, New York, NY 10020-1104, its successors and assigns, the application for a United States Patent for the improvements in a

"Methods and devices for recording marks in an information layer of an optical record carrier, and record carriers for use therein" invented by us, which application:

- ☐ is executed concurrently herewith
☐ was executed by me/us on
☐ is Serial No. filed
☒ is International Application No. PCT/EP00/06589 filed 11 July 2000

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8 February 2001

Date

(sign name here)

(print name here)

Martijn Jeroen DEKKER

, Assignor

8 February 2001

Date

(sign name here)

(print name here)

Hendrikus Bernardus
VAN DEN BRINK

, Assignor

characterized in that a last write pulse of a sequence is directly followed by a rear heating pulse having a rear heating power level (r), the rear heating power level (r) being higher than the erase power level (e).

2. (Amended) A method as claimed in claim 1, characterized in that the rear heating power level (r) of the rear heating pulse is dependent on properties of the recording medium.

3. (Amended) A method as claimed in claim 1 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, each mark being written by a sequence of $(n-1)$ write pulses, characterized in that the rear heating pulse has a first rear heating power level (r_1) when $n=2$, a second rear heating power level (r_2) when $n=3$, and a third rear heating power level (r_3) when $n \geq 4$, the first rear heating power level (r_1), the second rear heating power level (r_2), and the third rear heating power level (r_3) being dependent on properties of the recording medium.

4. (Amended) A method as claimed in claim 1, characterized in that the first write pulse of a sequence is directly preceded by a front heating pulse having a front heating power level (f), the front heating pulse being directly preceded by the cooling pulse having a cooling power level (c), the front heating power level (f) being higher than the erase power level (e).

5. (Amended) A method as claimed in claim 4, characterized in that the front heating power level (f) of the front heating pulse is dependent on properties of the recording medium.

6. (Amended) A method as claimed in claim 4 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, each mark being written by a sequence of $(n-1)$ write pulses, characterized in that the front heating pulse has a first front heating power level ($f1$) when $n=2$, a second front heating power level ($f2$) when $n=3$, and a third front heating power level ($f3$) when $n \geq 4$, the first front heating power level ($f1$), the second front heating power level ($f2$), and the third front heating power level ($f3$) being dependent on properties of the recording medium.

7. (Amended) A method as claimed in claim 1, characterized in that the cooling power level (c) of the cooling pulse is dependent on properties of the radiation source and the recording medium.

8. (Amended) A method as claimed in claim 4 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, each mark being written by a sequence of $(n-1)$ write pulses, characterized in that the cooling pulse has a first cooling power level ($c1$) when $n=2$, a second cooling power level ($c2$) when $n=3$, and a third cooling power level ($c3$) when $n \geq 4$, the first cooling power level ($c1$), the second cooling power level ($c2$), and the third cooling power level ($c3$) being dependent on properties of the radiation source and the recording medium.

9. (Amended) A method as claimed in claim 1, characterized in that the rear heating pulse includes a front portion having the rear heating power level (r), and a rear portion having a power level which is lower than the erase power level (e).

10. A method of recording marks representing data in a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, by irradiating the information layer with a pulsed radiation beam, each mark having a length of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, the marks being written by a sequence of pulses comprising $(n-1)$ write pulses, the written marks being erasable by irradiating the information layer with a radiation beam having an erase power level (e) , a first write pulse of a sequence of pulses being preceded by a cooling pulse having a cooling power level (c) which is lower than the erase power level (e) , said radiation beam being generated by a radiation source, characterized in that the cooling pulse has a first cooling power level $(c1)$ when $n=2$, a second cooling power level $(c2)$ when $n=3$, and a third cooling power level $(c3)$ when $n \geq 4$, the first cooling power level $(c1)$, the second cooling power level $(c2)$, and the third cooling power level $(c3)$ being dependent on properties the radiation source and of the recording medium.

11. (Amended) A method as claimed in claim 10, characterized in that the first cooling power level $(c1)$ is substantially equal to the second cooling power level $(c2)$ and the third cooling power level $(c3)$.

12. (Amended) A recording device for recording data in the form of marks on a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, by irradiating the information layer with a pulsed radiation beam, the recorded marks being erasable by means of irradiating the information layer with a radiation beam having an erase power level (e) , the device comprising a radiation

source providing the radiation beam and a control unit for controlling the power of the radiation beam, the control unit being operative for providing a sequence of write pulses for writing a mark and controlling the power of the radiation beam such that it has a cooling power level (c) which is lower than the erase power level (e) preceding a first write pulse of a sequence of pulses, characterized in that the control unit is operative for controlling the power of the radiation beam such that it has a rear heating pulse having a rear heating power level (r) directly following a last write pulse of a sequence, the rear heating power level (r) being higher than the erase power level (e).

13. (Amended) A recording device as claimed in claim 12, characterized in that the recording device comprises means for determining a value for the rear heating power level (r), which value for the rear heating power level (r) depends on properties of the recording medium.

14. (Amended) A recording device as claimed in claim 12 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, characterized in that the recording device comprises means for determining a first value for the rear heating power level (r1) when $n=2$, a second value for the rear heating power level (r2) when $n=3$, and a third value for the rear heating power level (r3) when $n \geq 4$, said first value for the rear heating power level (r1), second value for the rear heating power level (r2) and third value for the rear heating power level (r3) being dependent on properties of the recording medium.

15. (Amended) A recording device as claimed in claim 12, characterized in that the control unit is operative for controlling the power of the radiation beam such that it has a

front heating pulse having a front heating power level (f) directly preceding a first write pulse and a cooling pulse having a cooling power level (c) directly preceding the front heating pulse, the front heating power level (f) being higher than the erase power level (e) and the cooling power level (c) being lower than the erase power level (e).

16. (Amended) A recording device as claimed in claim 15, characterized in that the recording device comprises means for determining a value for the front heating power level (f), which value for the front heating power level (f) depends on properties of the recording medium.

17. (Amended) A recording device as claimed in claim 15 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, characterized in that the recording device comprises means for determining a first value for the front heating power level (f1) when $n=2$, a second value for the front heating power level (f2) when $n=3$, and a third value for the front heating power level (f3) when $n \geq 4$, said first value for the front heating power level (f1), second value for the front heating power level (f2) and third value for the front heating power level (f3) being dependent on properties of the recording medium.

18. (Amended) A recording device as claimed in claim 15, characterized in that the recording device comprises means for determining a value for the cooling power level (c), which value for the cooling power level (c) depends on properties of the recording medium.

19. (Amended) A recording device as claimed in claim 15 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and

n represents a predetermined natural number larger than 1, characterized in that the recording device comprises means for determining a first value for the cooling power level (c1) when $n=2$, a second value for the cooling power level (c2) when $n=3$, and a third value for the cooling power level (c3) when $n \geq 4$, said which first value for the cooling power level (c1), second value for the cooling power level (c2) and third value for the cooling power level (c3) being dependent on properties of the radiation source and the recording medium.

20. (Amended) A recording device as claimed in claim 12, characterized in that the control unit is operative for providing the rear heating pulse and controlling the power of the radiation beam such that the rear heating pulse includes a front portion having the rear heating power level (r), and a rear portion having a power level which is lower than the erase power level (e).

21. (Amended) A recording device for recording data in the form of marks on a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and said marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, by irradiating the information layer by a pulsed radiation beam, the recorded marks being erasable by irradiating the information layer with a radiation beam having an erase power level (e), the device comprising a radiation source providing the radiation beam and a control unit for controlling the power of the radiation beam, the control unit being operative for providing a sequence of write pulses for writing a mark and controlling the power of the radiation beam such that it has a cooling power level (c) which is lower than the erase power level (e) preceding a first write pulse of a sequence of

pulses, characterized in that the recording device comprises means for determining a first value for the cooling power level (c1) when $n=2$, a second value for the cooling power level (c2) when $n=3$, and a third value for the cooling power level (c3) when $n \geq 4$, said first value for the cooling power level (c1), second value for the cooling power level (c2) and third value for the cooling power level (c3) being dependent on properties of the radiation source and the recording medium.

22. (Amended) A recording device as claimed in claim 21, characterized in that the first value for the cooling power level (c1) is substantially equal to the second value for the cooling power level (c2) and the third value for the cooling power level (c3).

23. (Amended) A recording medium for use in a recording device as claimed in claim 13, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and comprising an area containing recording parameters, characterized in that the area containing recording parameters comprises a value for the rear heating power level (r).

24. (Amended) A recording medium for use in a recording device as claimed in claim 16, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and comprising an area containing recording parameters, characterized in that the area containing recording parameters comprises a value for the front heating power level (f).

25. (Amended) A recording medium for use in a recording device as claimed in claim 18, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and

comprising an area containing recording parameters,
characterized in that the area containing recording parameters
comprises a value for the cooling power level (c).

REMARKS

The claims have been amended to delete multiple dependencies.

The above amendments are submitted to place this application in proper U.S. format. Entry of the amendment and an early action on the merits are solicited.

Respectfully submitted,

By Michael E. Belk
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Appendix A

1. (Amended) A method of recording marks representing data in a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, by irradiating the information layer with a pulsed radiation beam, each mark being written by a sequence of pulses comprising at least one write pulse, the written marks being erasable by irradiating the information layer with a radiation beam having an erase power level (e), a first write pulse of a sequence of pulses being preceded by a cooling pulse having a cooling power level (c) which is lower than the erase power level (e), said radiation beam being generated by a radiation source, *[characterized in that]* characterized in that a last write pulse of a sequence is directly followed by a rear heating pulse having a rear heating power level (r), the rear heating power level (r) being higher than the erase power level (e).

2. (Amended) A method as claimed in claim 1, *[characterized in that]* characterized in that the rear heating power level (r) of the rear heating pulse is dependent on properties of the recording medium.

3. (Amended) A method as claimed in claim 1 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, each mark being written by a sequence of $(n-1)$ write pulses, *[characterized in that]* characterized in that in that the rear

7. (Amended) A method as claimed in claim 1, [2,3,4, 5 or 6, *characterized in that*] characterized in that the cooling power level (c) of the cooling pulse is dependent on properties of the radiation source and the recording medium.

8. (Amended) A method as claimed in claim 4 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, each mark being written by a sequence of $(n-1)$ write pulses, [*characterized in that*] characterized in that the cooling pulse has a first cooling power level (c_1) when $n=2$, a second cooling power level (c_2) when $n=3$, and a third cooling power level (c_3) when $n \geq 4$, the first cooling power level (c_1), the second cooling power level (c_2), and the third cooling power level (c_3) being dependent on properties of the radiation source and the recording medium.

9. (Amended) A method as claimed in claim 1, [2 or 3, *characterized in that*] characterized in that the rear heating pulse includes a front portion having the rear heating power level (r), and a rear portion having a power level which is lower than the erase power level (e).

10. A method of recording marks representing data in a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, by irradiating the information layer with a pulsed radiation beam, each mark having a length of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, the marks being written by a sequence of pulses comprising $(n-1)$ write pulses, the written marks being erasable by irradiating the information layer with a radiation beam having an erase power level (e), a

first write pulse of a sequence of pulses being preceded by a cooling pulse having a cooling power level (c) which is lower than the erase power level (e), said radiation beam being generated by a radiation source, [characterized in that] characterized in that the cooling pulse has a first cooling power level (c1) when $n=2$, a second cooling power level (c2) when $n=3$, and a third cooling power level (c3) when $n \geq 4$, the first cooling power level (c1), the second cooling power level (c2), and the third cooling power level (c3) being dependent on properties the radiation source and of the recording medium.

11. (Amended) A method as claimed in claim 10, [characterized in that] characterized in that the first cooling power level (c1) is substantially equal to the second cooling power level (c2) and the third cooling power level (c3).

12. (Amended) A recording device for recording data in the form of marks on a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, by irradiating the information layer with a pulsed radiation beam, the recorded marks being erasable by means of irradiating the information layer with a radiation beam having an erase power level (e), the device comprising a radiation source providing the radiation beam and a control unit for controlling the power of the radiation beam, the control unit being operative for providing a sequence of write pulses for writing a mark and controlling the power of the radiation beam such that it has a cooling power level (c) which is lower than the erase power level (e) preceding a first write pulse of a sequence of pulses, [characterized in that] characterized in that the control unit is operative for controlling the power of the radiation beam such that it has a rear heating pulse having a rear heating power level (r) directly following a last write

pulse of a sequence, the rear heating power level (r) being higher than the erase power level (e).

13. (Amended) A recording device as claimed in claim 12, *[characterized in that]* characterized in that the recording device comprises means for determining a value for the rear heating power level (r), which value for the rear heating power level (r) depends on properties of the recording medium.

14. (Amended) A recording device as claimed in claim 12 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, *[characterized in that]* characterized in that the recording device comprises means for determining a first value for the rear heating power level (r1) when $n=2$, a second value for the rear heating power level (r2) when $n=3$, and a third value for the rear heating power level (r3) when $n \geq 4$, said first value for the rear heating power level (r1), second value for the rear heating power level (r2) and third value for the rear heating power level (r3) being dependent on properties of the recording medium.

15. (Amended) A recording device as claimed in claim 12, [13 or 14, *characterized in that]* characterized in that the control unit is operative for controlling the power of the radiation beam such that it has a front heating pulse having a front heating power level (f) directly preceding a first write pulse and a cooling pulse having a cooling power level (c) directly preceding the front heating pulse, the front heating power level (f) being higher than the erase power level (e) and the cooling power level (c) being lower than the erase power level (e).

16. (Amended) A recording device as claimed in claim 15, *[characterized in that]* characterized in that the recording device comprises means for determining a value for the front heating power level (f), which value for the front heating power level (f) depends on properties of the recording medium.

17. (Amended) A recording device as claimed in claim 15 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, *[characterized in that]* characterized in that the recording device comprises means for determining a first value for the front heating power level (f1) when $n=2$, a second value for the front heating power level (f2) when $n=3$, and a third value for the front heating power level (f3) when $n \geq 4$, said first value for the front heating power level (f1), second value for the front heating power level (f2) and third value for the front heating power level (f3) being dependent on properties of the recording medium.

18. (Amended) A recording device as claimed in claim 15, *[characterized in that]* characterized in that the recording device comprises means for determining a value for the cooling power level (c), which value for the cooling power level (c) depends on properties of the recording medium.

19. (Amended) A recording device as claimed in claim 15 for recording marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, *[characterized in that]* characterized in that the recording device comprises means for determining a first value for the cooling power level (c1) when $n=2$, a second value for the cooling power level (c2) when $n=3$, and a third value for the cooling power level (c3) when $n \geq 4$, said which first value for

the cooling power level (c1), second value for the cooling power level (c2) and third value for the cooling power level (c3) being dependent on properties of the radiation source and the recording medium.

20. (Amended) A recording device as claimed in claim 12, [13 or 14, *characterized in that*] characterized in that the control unit is operative for providing the rear heating pulse and controlling the power of the radiation beam such that the rear heating pulse includes a front portion having the rear heating power level (r), and a rear portion having a power level which is lower than the erase power level (e).

21. (Amended) A recording device for recording data in the form of marks on a recording medium, said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and said marks having lengths of nT , where T represents the length of one period of a reference clock in a data signal and n represents a predetermined natural number larger than 1, by irradiating the information layer by a pulsed radiation beam, the recorded marks being erasable by irradiating the information layer with a radiation beam having an erase power level (e), the device comprising a radiation source providing the radiation beam and a control unit for controlling the power of the radiation beam, the control unit being operative for providing a sequence of write pulses for writing a mark and controlling the power of the radiation beam such that it has a cooling power level (c) which is lower than the erase power level (e) preceding a first write pulse of a sequence of pulses, [*characterized in that*] characterized in that the recording device comprises means for determining a first value for the cooling power level (c1) when $n=2$, a second value for the cooling power level (c2) when $n=3$, and a third value for the cooling power level (c3) when $n \geq 4$, said first value for the

cooling power level (c1), second value for the cooling power level (c2) and third value for the cooling power level (c3) being dependent on properties of the radiation source and the recording medium.

22. (Amended) A recording device as claimed in claim 21, ~~[characterized in that]~~ characterized in that the first value for the cooling power level (c1) is substantially equal to the second value for the cooling power level (c2) and the third value for the cooling power level (c3).

23. (Amended) A recording medium for use in a recording device as claimed in claim 13 [or 14], said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and comprising an area containing recording parameters, ~~[characterized in that]~~ characterized in that the area containing recording parameters comprises a value for the rear heating power level (r).

24. (Amended) A recording medium for use in a recording device as claimed in claim 16 [or 17], said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and comprising an area containing recording parameters, ~~[characterized in that]~~ characterized in that the area containing recording parameters comprises a value for the front heating power level (f).

25. (Amended) A recording medium for use in a recording device as claimed in claim 18 [or 19], said recording medium comprising an information layer having a phase which is reversibly changeable between a crystal phase and an amorphous phase, and comprising an area containing recording parameters, ~~[characterized in that]~~ characterized in that the area

containing recording parameters comprises a value for the cooling power level (c).



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ATTORNEY	11/1/04		ART UNIT
			PAPER NUMBER
			2652

DATE MAILED: 09/01/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,094	03/13/2001	Martijn Jeroen Dekker	PHN 17.550	1104

TITLE OF INVENTION: METHODS AND DEVICES FOR RECORDING MARKS IN AN INFORMATION LAYER OF AN OPTICAL RECORD CARRIER, AND RECORD CARRIERS FOR USE THEREIN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	12/01/2004

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24737	7590	09/01/2004		
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BATTAGLIA, MICHAEL V

ART UNIT	PAPER NUMBER
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DATE MAILED: 09/01/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 566 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 566 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,094	03/13/2001	Martijn Jeroen Dekker	PHN 17.550	1104
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		ART UNIT	PAPER NUMBER	
		2652		

DATE MAILED: 09/01/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because an increase in fees effective on October 1, 2004 is anticipated. See Revision of Patent Fees for Fiscal Year 2005; Proposed Rule, 69 Fed. Reg. 25861, 25863, 25864 (May 10, 2004).

The current fee schedule is accessible from WEB site (<http://www.uspto.gov/main/howtofees.htm>).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is proposed to be amended by revising paragraphs (a) through (c) to read as set forth below. As stated above, the final fee may be a different amount, and applicant should check the WEB site given above when paying the fee.

Section 1.18 Patent post allowance (including issue) fees.

- (a) Issue fee for issuing each original or reissue patent, except a design or plant patent:
- By a small entity (Sec. 1.27(a))..... \$670.00
 - By other than a small entity..... \$1,340.00
- (b) Issue fee for issuing a design patent:
- By a small entity (Sec. 1.27(a))..... \$245.00
 - By other than a small entity..... \$490.00
- (c) Issue fee for issuing a plant patent:
- By a small entity (Sec. 1.27(a))..... \$325.00
 - By other than a small entity..... \$650.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

09/787,094

Examiner

Michael V Battaglia

Applicant(s)

DEKKER ET AL

Art Unit

2652

APR 21 2006

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 25 August 2004.
2. ☒ The allowed claim(s) is/are 1-25.
3. ☒ The drawings filed on 13 March 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

HOA T. NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

8/31/04

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
(703) 746-4000**

or **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

24737 7590 09/01/2004

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P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

<u>Noemi CHAPA</u>	(Depositor's name)
<u>Noemi Chaga</u>	(Signature)
<u>DECEMBER 1, 2004</u>	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,094	03/13/2001	Martijn Jeroen Dekker	PHN 17.550	1104

TITLE OF INVENTION: METHODS AND DEVICES FOR RECORDING MARKS IN AN INFORMATION LAYER OF AN OPTICAL RECORD CARRIER, AND RECORD CARRIERS FOR USE THEREIN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	12/01/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
BATTAGLIA, MICHAEL V	2652	369-059110

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. MICHAEL E. BEIK

2. _____

3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

**KONINKLIJKE PHILIPS
ELECTRONICS N.V.**

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Eindhoven, The Netherlands

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 14-1270 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Michael E Beik

Date 11/30/04

Typed or printed name Michael E Beik

Registration No. 33357

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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ASSIGNMENT

Docket No. PHN 17-550

U.S. Philips Corporation a Delaware Corporation having an office at 1251 Avenue of the Americas, New York, NY 10020, in consideration of one dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, hereby sells, assigns, and transfers the entire right, title, and interest in the following patent application to **Koninklijke Philips Electronics N.V.**, having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, The Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively the "Assignee"):

Application No. 09/787,094

Filing Date: March 13, 2001

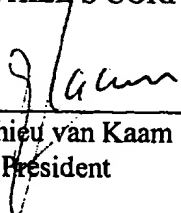
including all divisions, continuations, reissues, and extensions, and all patents granted on these applications.

The Assignor will provide its cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request of and at the expense of the Assignee, Assignor agrees to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee. Assignor authorizes and requests that these patents be issued to the Assignee.

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Dated: December 1, 2004

U.S. PHILIPS CORPORATION

By 
Matthieu van Kaam
Vice President



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RECORDATION DATE: 12/06/2004

REEL/FRAME: 016041/0440
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

U.S. PHILIPS CORPORATION

DOC DATE: 12/01/2004

ASSIGNEE:

KONINKLIJKE PHILIPS ELECTRONICS,
N.V.
GROENEWOUDSEWEG 1
5621 BA EINDHOVEN, NETHERLANDS

SERIAL NUMBER: 09787094

FILING DATE: 03/13/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND DEVICES FOR RECORDING MARKS IN AN INFORMATION LAYER OF AN OPTICAL RECORD CARRIER, AND RECORD CARRIERS FOR USE THEREIN

PC MAY 27 2005

mm

016041/0440 PAGE 2

VIOLET MCCOY, EXAMINER
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